

## INFORMATION REPORT INFORMATION REPORT

CENTRAL INTELLIGENCE AGENCY

25X1

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S E C R E T

COUNTRY	East Germany	REPORT	
SUBJECT	VEB Werk fuer Fernmeldewesen HF Tube Production	DATE DISTR.	17 March 1955 25X1
		NO. OF PAGES	3
DATE OF INFO.		REQUIREME	
PLACE ACQUIRED		REFERENCES	25X1
DATE ACQUIRED			

SOURCE EVALUATIONS ARE DEFINITIVE. APPRAISAL OF CONTENT IS TENTATIVE.

1. The following tubes were reported in July 1954 to be in the course of development at VEB Werk fuer Fernmeldewesen HF: 25X1

PCC 84 - cascade input-stage for VHF receivers;  
 PCF 83 - triode-pentode (generally similar to types ECH 81 and UCH 81, but having a shorter feeder);  
 EC 84 - VHF amplifier triode (imitation of the USA 6 AJ 4);  
 EC 94 - VHF oscillator (imitation of the USA 6 AF 4);  
 PY 81 - switch diode;  
 QQE - high-output VHF transmitter tube;  
 RS 1003 - high-output VHF transmitter tube;  
 EL 153 - high-output VHF transmitter tube;  
 Ignitrons for control purposes in industrial switching.

2. Production figures for miniature tubes for the months of June, July and August 1954 were as follows:<sup>2</sup>

	June	July	August
EAA 91	3,150	3,600	3,600
ECC 91	4,700	5,200	5,500
EF 80	4,200	4,500	4,800
EF 85	20,000	21,000	17,000
EF 96	2,600	2,400	3,000
EABC 80	11,600	12,000	12,400
ECH 81	27,100	28,400	29,300
UF 85	13,700	13,600	13,700
UABC 80	10,000	5,000	4,800
UCH	27,500	28,000	28,000
PL 81	(not yet ready)	2,200	2,500
PL 83	(not yet ready)	2,000	2,600

3. Production figures for broadcast tubes for July and August were as follows:

	July	August
I Z I	7,500	7,700
5 Z 4c	19,000	17,600

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	<u>July</u>	<u>August</u>
6 H 6	4,500	4,600
6 SN 7	8,500	9,000
6 AC 7	30,000	33,000
6 SJ 7	6,300	6,500
6 V 6	11,800	12,200
P 50 II	7,200	6,900
6 SH 7	6,000	6,200
6 F 6	3,500	3,300
6 SA 7	4,000	4,200
P 50	1,300	1,200
6 AC 7k	400	200
6 AG 7k	-	180

## 4. Production figures for transmitter tubes were:

	<u>June</u>	<u>July</u>	<u>August</u>
TS 41	370	400	430
558 3	not known	30	30
568	not known	30	30

5. Production figures for stabilizers for the month of June were:<sup>4</sup>

STV 70/6	480
STV 100/40 z	370
STV 150/20	510
STV 150/40 z	250
STV 280/40	100
STV 280/80	475

Figures for July and August were almost exactly the same.

## 6. Production figures for thyratrons for July and August were:

	<u>July</u>	<u>August</u>
S 1/0, 21 II G 6, 3 V	270	230
S 7, 5/o, 6d	55	50
S 15/5d	65	70
S 5/6 1	30	30
S 1/6 1	25	-
S 1/20 1 IV	10	-
S 15/40 1	50	50
PL 21	not known	ca 100

During the first four months of the year, about ten other types of thyratrons were in production.

## 7. Production figures for rectifier and technical tubes for June were:

AG 1006	50
G 7,5/o,6 d	530
G 10/4 d	370
G 20/5 d	25
T 113	100
5 D 21	20
HF 2185	15

## 8. The reject rate for miniature and broadcast tubes was 32% until the end of July 1954; since August, this figure has dropped to 26%. For transmitter tubes the reject rate is 20% and for thyratrons and stabilizers 26%.

9. The following types of travelling-wave tubes have been developed in the laboratory of Heidborn (fmu):<sup>5</sup>

- a. A low noise level first stage amplifier for a wave-length of 10 cms, with coaxial feed.

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b. An oscillator.

c. A power amplifier for a wave-length of 10 cms, with an output of 4 to 5 watts and an amplification factor of about 30.

Two or three of each type are produced in the laboratory each month.

10. 20,000 octodes have been ordered from the VEB Werk fuer Fernmeldewesen HF for use in 20,000 Leningrad television receivers being built for the USSR by VEB Sachsenwerk Radeberg.

Comments:

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1. Later stages in the development of all of the tubes in paragraph 1, with the exception of the EL-153 and the ignitrons, were previously reported; this paragraph is included for independent confirmation. We note that the 6 AF 4 was previously reported as 6 AF 6. and PY 81 as PL 81.
2. The tubes listed in paragraphs 2 and 3 are made by the broadcast tube department, which has a total monthly output of about 250,000 tubes.
3. the number of this tube; it may be either 556 or 558. They are both 10 kw tubes, probably for use in jamming transmitters.
4. The tubes listed in paragraphs 4, 5, 6, and 7 are manufactured by the special tubes department, which has a total monthly output of 4500 to 5000 tubes.

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